

INTERNATIONAL SEARCH REPORT

PCT/EP 02/14376

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E06B9/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E06B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 446 188 A (LANG JOSEPH M) 20 February 1923 (1923-02-20)	1
Y	the whole document	2,3,5-7
Y	EP 1 120 064 A (PEPPETT ROBERT ANTHONY) 1 August 2001 (2001-08-01) column 4, line 5 -column 4, line 35 column 5, line 28 -column 5, line 32 figures 14-16,24	2,5
Y,P	US 2002/023726 A1 (DAVIS FLOYD C ET AL) 28 February 2002 (2002-02-28) page 3, column 2, line 1 -page 3, column 2, line 10 claim 1; figures 1-3,5	2,3,5
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

26 March 2003

Date of mailing of the international search report

02/04/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 44 25 865 A (BADEWIEN REINHARD) 25 January 1996 (1996-01-25)	3
A	column 2, line 34 -column 2, line 56 column 3, line 52 -column 3, line 61 figures 1,2	4
Y	US 2 886 481 A (DEWEY SWAN GEORGE) 12 May 1959 (1959-05-12) column 1, line 40 -column 2, line 19 column 2, line 42 -column 2, line 55 figures 1-4	6,7

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 1446188	A	20-02-1923	NONE
EP 1120064	A	01-08-2001	GB 2356809 A 06-06-2001 EP 1120064 A2 01-08-2001 US 6497268 B1 24-12-2002 US 2002017369 A1 14-02-2002
US 2002023726	A1	28-02-2002	US 5551501 A 03-09-1996
DE 4425865	A	25-01-1996	DE 4425865 A1 25-01-1996
US 2886481	A	12-05-1959	NONE